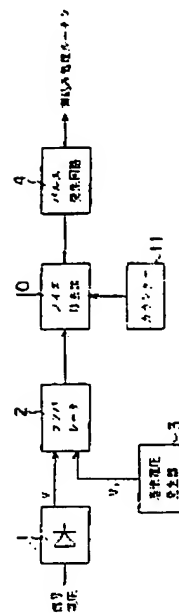


Patent Abstracts of Japan

TITLE : INTERRUPTION METHOD BY
DETECTION OF ZERO CROSS POINT



CONSTITUTION: A counter 11 is cleared at the same time with the start of the external interruption, and then it is increased every time the main routine is processed, and measures the time elapsed from the start of the external processing. A noise removing part 10 reads the time elapsed from the counter 11 at the last transition of the zero cross point pulse, and in case that the time t elapsed is settled within the specified range $t_{\text{set}} \leq t \leq t_{\text{set}}$, it judges the zero cross point to be a normal one, and clears the counter 11, and outputs a signal to a pulse generating circuit 4. On the other hand, in case that the time t elapsed is not settled within the specified range $t_{\text{set}} \leq t \leq t_{\text{set}}$, it judges the zero cross point to be abnormal one by noise, etc., and continues the increment of the counter 11, and does not output a signal to the pulse generating circuit, either.

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